Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in the subject application:

Listing of Claims:

1.   (Currently Amended) A-system application An apparatus comprising:
a headset having a memory for storing a preference setting, the memory being configured to allow the preference setting to be repeatedly modified and stored during use of the headset; and
a host adapter selectively coupled to the headset and having a performance parameter, wherein the host adapter is capable of accessing the memory in order to read the preference setting.

2.   (Currently Amended) The system application apparatus of claim 1, wherein the host adapter accesses the memory through a serial port in order to read the preference setting from the memory.

3.   (Currently Amended) The system application apparatus of claim 1, wherein the memory is implemented within a headphone of the headset.

4.   (Currently Amended) The system application apparatus of claim 1, wherein the memory is implemented within a cable quick disconnect of the headset.

5.   (Currently Amended) The system application as claimed in apparatus of claim 1, wherein the host adapter adjusts its performance parameter in accordance with the preference setting read from the memory.

6.   (Currently Amended) The system application apparatus of claim 3, wherein the preference setting is one of a preferred volume level , a preferred treble level , a preferred bass level and a preferred balance level.

7.   (Currently Amended) The system application apparatus of claim 3, wherein the performance parameter of the host adapter may be further manually adjusted by a user to a new preference level, which is then stored in the memory, thereby overwriting the previously stored preference setting.

8.   (Currently Amended) An apparatus comprising a headset having at least one headphone for receiving audio signals, at least one microphone assembly for transmitting audio signals and a digital memory device for storing performance characteristics of the at least one headphone, the memory device being selectively in communication with a host adapter for

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accessing the memory, the memory device being further configured to allow the preference characteristics to be repeatedly modified and stored during use of the headset.

9.   (Original) The apparatus of claim 8 wherein the digital memory device stores filtering and compensation circuitry parameters and settings which are determined as a function of the performance characteristics of the at least one headphone.

10.   (Currently Amended) The apparatus of claim 8, further comprising [[a]] the host adapter selectively coupled to the headset having for transmitting audio signals to the at least one headphone of the headset and receiving audio signals from the at least one microphone assembly of the headset, said host adapter having a memory interface for accessing the digital memory device, in order to read the performance characteristics of the at least one headphone which are stored in the digital memory device of the headset.

11.   (Original) The apparatus of claim 10, wherein the host adapter adjusts the audio signals transmitted to the at least one headphone as a function of the performance characteristics read from the memory.

12.   (Currently Amended) The apparatus of claim 9, further comprising a host adapter coupled to the headset having for transmitting audio signals to the at least one headphone of the headset and receiving audio signals from the at least one microphone assembly of the headset, said host adapter having adjustable filtering and compensation circuitry and a memory interface for accessing the digital memory device, in order to read the filtering and compensation circuitry parameters and settings which are stored in the digital memory device of the headset.

13.   (Original) The apparatus of claim 12, wherein the host adapter adjusts its adjustable filtering and compensation circuitry as a function of the parameters and settings read from the memory.

14.   (Currently Amended) The apparatus as-claimed-in of claim 8, wherein the performance characteristics of the at least one headphone include at least one of a receive signal frequency response, a receive signal sensitivity, a receive impedance characteristic, a receive signal gain, and a receive signal to noise ratio.

15.   (Currently Amended) An apparatus comprising a headset having at least one headphone for receiving audio signals, at least one microphone assembly for transmitting audio signals and a digital memory device for storing performance characteristics of the at least one microphone assembly, the memory device being selectively in communication with a host

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adapter for accessing the memory, the memory device being further configured to allow the preference characteristics to be repeatedly modified and stored during use of the headset.

16.   (Original) The apparatus of claim 15 wherein the digital memory device stores filtering and compensation circuitry parameters and settings which are determined as a function of the performance characteristics of the at least one microphone assembly.

17.   (Currently Amended) The apparatus of claim 15, further comprising [[a]] the host adapter selectively coupled to the headset for transmitting audio signals to the at least one headphone of the headset and receiving audio signals from the at least one microphone assembly of the headset; wherein the host adapter unit includes a memory interface for accessing the memory device in order to read the performance characteristics of the at least one microphone assembly stored in the digital memory device of the headset.

18.   (Original) The apparatus of claim 17, wherein the host adapter adjusts the audio signals received from the at least one microphone assembly of the headset as a function of the performance characteristics read from the memory.

19.   (Currently Amended) The apparatus of claim 16, further comprising a host adapter coupled to the headset having for transmitting audio signals to the at least one headphone of the headset and receiving audio signals from the at least one microphone assembly of the headset, said host adapter having adjustable filtering and compensation circuitry and a memory interface for accessing the digital memory device, in order to read the filtering and compensation circuitry parameters and settings which are stored in the digital memory device of the headset.

20.   (Original) The apparatus of claim 19, wherein the host adapter adjusts its adjustable filtering and compensation circuitry as a function of the parameters and settings read from the memory.

21.   (Currently Amended) The apparatus as claimed in of claim 15, wherein the performance characteristics of the at least one microphone include at least one of a transmit signal frequency response, a transmit signal sensitivity, a transmit impedance characteristic, a transmit signal gain, and a transmit signal to noise ratio.

22.   (Currently Amended) An apparatus comprising:
       a headset having at least one headphone for receiving audio signals and a microphone
             assembly for transmitting audio signals, wherein the headset further includes a
             memory device for storing a first set of performance characteristics for the at
             least one headphone and a second set of performance characteristics for the

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microphone assembly, the memory device being selectively in communication with a host adapter for accessing the memory, the memory device being further configured to allow at least one of the first and second sets of the preference characteristics to be repeatedly modified and stored during use of the headset.

23. (Currently Amended) The apparatus as claimed in claim 22, further comprising: [[a]] the host adapter coupled to the headset for transmitting audio signals to the at least one headphone and receiving audio signals from the microphone, wherein the host adapter includes a processor for accessing the memory device and reading either one or both of the first set of performance characteristics and the second set of performance characteristics.

24. (Original) The apparatus as claimed in claim 23, wherein the host adapter adjusts the audio signals transmitted to the at least one headphone as a function of the first set of performance characteristics read from the memory device of the headset.

25. (Original) The apparatus as claimed in claim 22, wherein the first set of performance characteristics include a receive frequency response of the at least one headphone, a receive audio level at the at least one headphone, a receive impedance characteristic of the at least one headphone, a receive signal gain of the at least one headphone, and a receive signal to noise ratio at the at least one headphone.

26. (Original) The apparatus as claimed in claim 24, wherein the host adapter adjusts the audio signals received from the microphone assembly of the headset as a function of the second set of performance characteristics read from the memory device of the headset.

27. (Original) The apparatus as claimed in claim 22, wherein the second set of performance characteristics include a transmit frequency of the microphone assembly, a transmit audio level of the microphone assembly, an impedance characteristic of the microphone assembly, a transmit signal gain of the microphone assembly, and a signal to noise ratio of the microphone assembly.

28. (Currently Amended) The apparatus of as claimed in claim 22 wherein the digital memory device stores a first set of filtering and compensation circuitry parameters and settings which are determined as a function of the first set of performance characteristics of the at least one headphone and a second set of filtering and compensation circuitry parameters and settings

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which are determined as a function of the second set of performance characteristics of the microphone assembly.

29.   (Currently Amended) The apparatus as claimed in claim [[23]] 22, further comprising:

[[a]] the host adapter coupled to the headset for transmitting audio signals to the at least one headphone and receiving audio signals from the microphone assembly, wherein the host adapter includes:

filtering and compensation circuitry, and

a processor for accessing the memory device and reading either one or both of the first set of filtering and compensation circuitry parameters and the second set of filtering and compensation circuitry parameters.

30.   (Original) The apparatus as claimed in claim 29, wherein the host adapter adjusts its filtering and compensation circuitry in order to adjust the audio signals transmitted to the at least one headphone as a function of the first set of filter and compensation circuitry parameters read from the memory device of the headset.

31.   (Original) The apparatus as claimed in claim 29, wherein the host adapter adjusts the its filtering and compensation circuitry in order to adjust the audio signals received from the microphone assembly of the headset as a function of the second set of filtering and compensation circuitry parameters read from the memory device of the headset.

32.   (Currently Amended) A process for manufacturing a headset having at least one headphone and a microphone assembly, comprising the steps of:

enclosing a memory device within a headphone or cable quick disconnect of the headset;

measuring performance characteristics of the headset; and

storing the performance characteristics in the memory device, the memory device being configured to selectively couple to a host adapter for accessing the memory and the memory device is further configured to allow the preference characteristics to be subsequently and repeatedly modified and stored during use of the headset.

33.   (Original) The process claimed in claim 32, wherein the step of measuring performance characteristics of the headset includes:

coupling the headset to a test apparatus;

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transmitting an audio test pattern from the test apparatus to the at least one headphone of the headset; and

measuring performance characteristics of the at least one headphone.

34.   (Original) The process claimed in claim 33, wherein performance characteristics of the at least one headphone include a frequency response of the at least one headphone, a receive sensitivity of the at least one headphone, a received signal audio level at the at least one headphone, an impedance characteristic of the at least one headphone, a received signal gain at the at least one headphone, and a received signal-to-noise ratio at the at the at least one headphone.

35.   (Original) The process claimed in claimed 33, further comprising the steps of:
determining a first set of filtering and compensation parameters as a function of the performance characteristics of the at least one headphone; and
storing the first set of filtering and compensation parameters in the memory of the headset.

36.   (Original) The process claimed in claim 33, wherein the audio test pattern is stored in the memory device for future reference.

37.   (Original) The process claimed in claim 32, wherein the step of measuring performance characteristics of the headset includes:
coupling the headset to a test apparatus;
transmitting an audio test signal from the microphone assembly of the headset to the test apparatus; and
measuring performance characteristics of the microphone assembly.

38.   (Original) The process claimed in claim 37, wherein performance characteristics of the microphone assembly include a transmit signal audio level from the microphone assembly, a transmit sensitivity of the microphone assembly, an impedance characteristic of the microphone assembly, and a transmit signal-to-noise ratio from the microphone assembly.

39.   (Original) The process claimed in claimed 37, further comprising the steps of:
determining a second set of filtering and compensation parameters as a function of the performance characteristics of the microphone assembly; and
storing the first set of filtering and compensation parameters in the memory of the headset.

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40.   (Currently Amended) The process of claimed in claim 37, wherein the audio test signal is stored in the memory device for future reference.

41.   (Currently Amended) A method for adjusting an audio signal provided to a headset having at least one headphone and a memory device, the method comprising:

storing a performance characteristic of the at least one headphone in the memory device of the headset;

reading the performance characteristic stored in the memory device by a host adapter in selective communication with the headset memory device; [[and]]

adjusting the audio signal provided to the headset as a function of the performance characteristic read from the memory device by the host adapter; and

repeating the storing, reading and adjusting upon modification of the performance characteristic in the headset memory device.

42.   (Currently Amended) The method of claim 41 wherein the audio signal is provided to the headset from [[a]] the host adapter which automatically adjusts the audio signal using filtering and compensation circuitry before it is provided to the headset as a function of the performance characteristic read from the memory device.
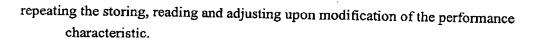
43.   (Original) The method of claim 42, wherein the memory device includes a serial port and further wherein the host adapter communicatively couples to the memory device through the serial port in order to read the performance characteristic.

44.   (Original) The method of claimed 41, wherein the performance characteristic of the at least one headphone is one of a frequency response of the at least one headphone, a receive sensitivity of the at least one headphone, a received signal audio level at the at least one headphone, an impedance characteristic of the at least one headphone, a received signal gain at the at least one headphone, and a received signal-to-noise ratio at the at the at least one headphone.

45.   (Currently Amended) A method for adjusting an audio signal received from a headset having a microphone assembly and a memory device, the method comprising:

storing a performance characteristic of the microphone assembly in the memory device of the headset;

reading the performance characteristic stored in the memory device by a host adapter in selective communication with the headset memory device; [[and]]

adjusting the audio signal received from the headset as a function of the performance characteristic read from the memory device by the host adapter; and

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repeating the storing, reading and adjusting upon modification of the performance characteristic.

46.   (Currently Amended) The method of claim 45 wherein the audio signal is received from the headset by [[a]] the host adapter and the host adapter automatically adjusts the audio signal received from the headset as a function of the performance characteristic read from the memory device.

47.   (Currently Amended) The method of claim 46, wherein the memory device includes a serial port and further wherein the host adapter communicatively couples to the memory device through the serial port in order to read at least one of the plurality of performance characteristics characteristic.

48.   (Original) The process claimed in claim 45, wherein performance characteristic of the microphone assembly is one of a frequency response of the microphone assembly, a transmit sensitivity of the microphone assembly, a transmit signal audio level of the microphone assembly, an impedance characteristic of the microphone assembly, a transmit signal gain from the microphone assembly, and a transmit signal-to-noise ratio of the microphone assembly.

49.   (Currently Amended) A method for adjusting an audio signal which is received from or transmitted to a headset having at least one headphone, a microphone, and a memory device, the method comprising:

    storing a plurality of performance characteristics for the headset in the memory device of the headset;

    reading at least one of the plurality of performance characteristics from the memory device by a host adapter in selective communication with the headset memory device; [[and]]

    adjusting the audio signal which is received from or transmitted to the headset as a function of the at least one performance characteristic read from the memory device by the host adapter; and

    repeating the storing, reading and adjusting upon modification of at least one of the plurality of performance characteristics.

50.   (Currently Amended) The method of claim 49 wherein [[a]] the host adapter reads at least one of the plurality of performance characteristics from the memory device and either:

receives the audio signal from the microphone of the headset and adjusts the received ·audio signal in accordance with the performance characteristic read from the memory device of the headset; or

receives the audio signal to be transmitted to the headset from an exterior system application, adjusts the audio signal as a function of the performance characteristic read from the memory device of the headset, and transmits the adjusted audio signal to the headset.

51.   (Original) The method of claim 50, wherein the memory device includes a serial port to which the host adapter communicatively couples in order to read at least one of the plurality of performance characteristics from the memory device.

52-54. (Canceled)

55.   (Currently Amended) A method for tracking a service history of a headset having a memory device, the method comprising:

storing a service date and type of service performed on the headset in the memory device; [[and]]

reading the service date and type of service performed on the headset from the memory by a host adapter in selective communication with the headset memory device; and

repeating the storing and reading upon modification of the service date and type of service performed stored in the memory device.

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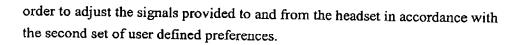56.   (Currently Amended) The method of claim 55, wherein the type of service performed ~~may include~~ includes a testing service, a maintenance service, a repair service or a replacement of parts service.

57.   (Currently Amended) A method for automatically setting performance parameters of a host adapter to various user defined preferences for different users of the host adapter, the method comprising:

storing a first set of user defined preferences for a first user in a headset having a memory device, the memory being configured to be selectively coupled to the host adapter capable of accessing the memory;

storing a second set of user defined preferences for a second user in the headset having the memory device;

retrieving the first set of user defined preferences from the memory when the headset is coupled to the host adapter and used by the first user and, thereafter setting each of the performance parameters of the host adapter to the first set of user defined preferences retrieved from the memory; and

retrieving the second set of user defined preferences from the memory when the headset is coupled to the host adapter and used by the second user, and thereafter setting each of the performance parameters of the host adapter to the second set of user defined preferences retrieved from the memory.

58.   (Currently Amended) The method of claim 57, wherein the first set of user defined preferences ~~include~~ includes at least one of a volume level preferred by the first user, a bass level preferred by the first user, a treble level preferred by the first user, and a balance level preferred by the first user.

59.   (Currently Amended) The method of claim 57, wherein the second set of user defined preferences ~~include~~ includes at least one of a volume level preferred by the second user, a bass level preferred by the second user, a treble level preferred by the second user, and a balance level preferred by the second user.

60.   (Currently Amended) A system for automatically setting performance parameters of a host adapter to various user defined preferences for different users of the host adapter, the system comprising:

the host adapter;

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a headset with memory for storing a first set of user defined preferences for a first
user and storing a second set of user defined preferences for a second user;
a memory interface within the host adapter for retrieving the first set of user defined
preferences when the headset with memory is <u>selectively</u> coupled to the host
adapter and used by the first user, thereafter setting a series of performance
parameters of the host adapter to the first set of user defined preferences; and
<u>for</u> retrieving the second set of user defined preferences when the headset with
memory is <u>selectively</u> coupled to the host adapter and used by the second user,
thereafter setting the performance parameters of the host adapter to the second
set of user defined preferences.

61.   (Currently Amended) The system of claim 60, wherein the first set of user defined
preferences ~~include~~ includes at least one of a volume level preferred by the first user, a bass level
preferred by the first user, a treble level preferred by the first user, <u>and</u> a balance level preferred
by the first user.

62.   (Original) The system of claim 60, wherein the second set of user defined
preferences include a volume level preferred by the second user, a bass level preferred by the
second user, a treble level preferred by the second user, a balance level preferred by the second
user.

63.   (Currently Amended) A host adapter for providing signals to and from a headset
having a memory device, the host adapter comprising:
an adjustable series of performance parameters for adjusting the signals provided to
and from the headset;
a memory interface for retrieving a first set of user defined preferences when the
headset with memory device is <u>selectively</u> coupled to the host adapter and
used by a first user, the host adapter thereafter setting the adjustable series of
performance parameters of the host adapter to the first set of user defined
preferences in order to adjust the signals provided to and from the headset
with memory in accordance with the first set of user defined preferences; and
<u>for</u> retrieving a second set of user defined preferences when the headset with
memory is <u>selectively</u> coupled to the host adapter and used by a second user,
the host adapter thereafter setting the adjustable series of performance
parameters of the host adapter to the second set of user defined preferences in

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order to adjust the signals provided to and from the headset in accordance with the second set of user defined preferences.

64.   (Original) The system of claim 63, wherein the adjustable series of performance parameters include a volume level, a bass level, a treble level, and a balance level.

65.   (Currently Amended) The system of claim 63, wherein the first set of user defined preferences ~~include~~ includes at least one of a volume level preferred by the first user, a bass level preferred by the first user, a treble level preferred by the first user, and a balance level preferred by the first user.

66.   (Currently Amended) The system of claim 63, wherein the second set of user defined preferences ~~include~~ includes at least one of a volume level preferred by the second user, a bass level preferred by the second user, a treble level preferred by the second user, and a balance level preferred by the second user.

67.   (Currently Amended) A host adapter coupled to a headset having at least one headphone, a microphone assembly and a memory device, the host adapter used for transmitting audio signals to at least one headphone of the headset and receiving audio signals from the microphone assembly of the headset, the host adapter comprising:
  a memory interface for accessing the memory device when the memory interface is selectively coupled to the member device of the headset in order to read a first of set of performance characteristics of the microphone assembly stored in the digital memory device of the headset, the memory device being configured to allow the first set of performance characteristics to be repeatedly modified and stored during use of the headset.

68.   (Currently Amended) The host adapter of claim 67, further comprising ~~filtering and~~ filtering and compensation circuitry for adjusting the audio signals received from the microphone assembly of the headset as a function of the performance characteristics of the microphone assembly read from the memory.

69.   (Currently Amended) The ~~apparatus as claimed in~~ host adapter of claim 67, wherein the performance characteristics of the microphone assembly include at least one of a transmit signal frequency response, a transmit signal sensitivity, a transmit impedance characteristic, a transmit signal gain, and a transmit signal to noise ratio.

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70.   (Currently Amended) ~~The host adapter of claim 67, wherein the~~ A host adapter ~~coupled to a headset having at least one headphone, a microphone assembly and a memory device, the host adapter used for transmitting audio signals to at least one headphone of the headset and receiving audio signals from the microphone assembly of the headset, the host adapter comprising:~~

a memory interface is further for accessing the memory device when the memory interface is selectively coupled to the member device of the headset in order to read a second of set of performance characteristics of the at least one headphone stored in the digital memory device of the headset, the memory device being further configured to allow the second set of performance characteristics to be repeatedly modified and stored during use of the headset.

71.   (Currently Amended) The host adapter of claim [[60]] 70, further comprising filtering and compensation circuitry for adjusting the audio signals transmitted to the at least one headphone of the headset as a function of the second set of performance characteristics of the at least one headphone read from the memory.

72.   (Currently Amended) The ~~apparatus as claimed in~~ host adapter claim [[67]] 70, wherein the second set of performance characteristics of the at least one headphone include at least one of a receive signal frequency response, a receive signal sensitivity, a receive impedance characteristic, a receive signal gain, and a receive signal to noise ratio.

73.   (New) A method for retrieving headset preference settings from a headset with memory, comprising:

identifying a headset user selected from a plurality of headset users via a user login;
retrieving a set of headset preference settings associated with the identified headset user from the headset memory by a host adapter, the host adapter being selectively coupled to the headset memory, the retrieving being based on the identity of the headset user, and the headset adapter having performance parameters corresponding to the headset preference settings;
setting the performance parameters of the host adapter to the headset preference settings associated with the identified headset user retrieved from the headset memory; and
repeating said identifying, retrieving and setting upon each user login.

74.   (New) A method of claim 73, further comprising:
    matching the identity of the headset user with a performance parameter memory
        starting address in the headset memory; and
    transferring the memory starting address in the headset memory to the host adapter,
        wherein said reading from the headset memory is based on the memory
        starting address.

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